

## Reed switches and mercury tilt switches



### Detection

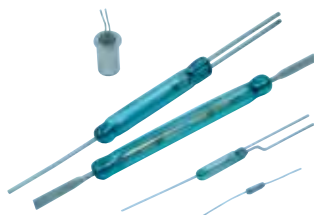
Clearance, position, level, presence

### Switching

Telecom, tester, measurement

## Reed Switches and Mercury Tilt Switches

Detecting a clearance, a position, a level in extrem environments without mechanical link between the moving parts and without maintenance, such is the daily challenge of the Reed contact submitted to a magnetic field in industrial sectors as various as money, space, control, telecom...



Sensitivity to be specified in the order

| PRODUCT REFERENCE | Contact type | Max. switching voltage | Max. switching current | Max. switching power | Standard sensivity range | Cable length   |
|-------------------|--------------|------------------------|------------------------|----------------------|--------------------------|----------------|
| AC01              | 1NO          | 30VDC                  | 0,01A                  | 0,25VA               | 5-20AT                   | 6mm            |
| AC03              |              | 100VDC                 | 0,5A                   | 12VA                 | 10-35AT                  | 10mm           |
| AC05              |              | 100VDC                 | 0,5A                   | 12VA                 | 10-35AT                  | 14mm           |
| AJ21              |              | 100VDC                 | 0,4A                   | 10VA                 | 10-35AT                  | 14 mm          |
| AV10              |              | 7500VDC                | 0,2A                   | 50VA                 | 80-130AT                 | 53,4 mm        |
| AD22              |              | 250VDC                 | 1,3A                   | 80VA                 | 40-105AT                 | 52mm           |
| AD81              |              | 250VDC                 | 3A                     | 120W                 | 70-100AT                 | 50mm           |
| AI02              |              | 200VDC                 | 0,5A                   | 10W                  | 15-30AT                  | 10mm           |
| AI43              |              | 200VDC                 | 0,5A                   | 10W                  | 15-30AT                  | 15mm           |
| AI44              |              | 200VDC                 | 2A                     | 30W                  | 15-35AT                  | 20,5mm         |
| CD29              |              | 250VAC                 | 1A                     | 25W                  | 50-90AT                  | d 34,3mm       |
| CD30              |              | 500VAC                 | 3A                     | 100VA                | 60-100AT                 | 34,3mm         |
| CG21              |              | 100VDC                 | 0,25A                  | NC 3W/NO 8W          | 15-35AT                  | 14,5mm         |
| CG21V             | 100VDC       | 0,25A                  | NC 3W/NO 8W            | 15-35AT              | 14,5mm, "with bending"   |                |
| IB600099          | tilt switch  | 240VDC                 | 0,4A                   | 60VA                 | ---                      | mercury switch |

## Reed Relays in DIP enclosure



The most popular and the most industrial of the range. It offers all contact combinations. It is designed to switch inputs of telephony levels or PLC, signals from sensors or safety components.

| Internal scheme top view | PRODUCT REFERENCE | Contact type | Characteristics of the bulb |                        |                      | Characteristics of the coil |                 | Specifications | Dimensions mm    |       |                  |
|--------------------------|-------------------|--------------|-----------------------------|------------------------|----------------------|-----------------------------|-----------------|----------------|------------------|-------|------------------|
|                          |                   |              | Max. switching voltage      | Max. switching current | Max. switching power | Voltage rating              | R. coil at 20°C |                |                  |       |                  |
|                          | D31A3100          | 1NO          | 100VDC                      | 0,5A                   | 10VA                 | 5VDC                        | 500 Ω           | ---            | 19,1 x 6,6 x 6,4 |       |                  |
|                          | D31A3110          |              | 100VDC                      | 0,5A                   | 10VA                 | 5VDC                        | 500 Ω           | diode          |                  |       |                  |
|                          | D31A5100          |              | 100VDC                      | 0,5A                   | 10VA                 | 12VDC                       | 1 kΩ            | ---            |                  |       |                  |
|                          | D31A5110          |              | 100VDC                      | 0,5A                   | 10VA                 | 12VDC                       | 1 kΩ            | diode          |                  |       |                  |
|                          | D31A6110          |              | 100VDC                      | 0,5A                   | 10VA                 | 15VDC                       | 2150 Ω          | diode          |                  |       |                  |
|                          | D31A7100          |              | 100VDC                      | 0,5A                   | 10VA                 | 24VDC                       | 2150 Ω          | ---            |                  |       |                  |
|                          | D31A7110          |              | 100VDC                      | 0,5A                   | 10VA                 | 24VDC                       | 2150 Ω          | diode          |                  |       |                  |
|                          | D31B3110          |              | 1NC                         | 100VDC                 | 0,5A                 | 10VA                        | 5VDC            | 500 Ω          |                  | diode | 19,1 x 6,6 x 6,4 |
|                          | D31B5110          |              |                             | 100VDC                 | 0,5A                 | 10VA                        | 12VDC           | 1 kΩ           |                  | diode |                  |
|                          |                   |              | D31C2100                    | change-over            | 100VDC               | 0,25A                       | 3VA             | 5VDC           |                  | 200 Ω | ---              |
| D31C2110                 |                   | 100VDC       | 0,25A                       |                        | 3VA                  | 5VDC                        | 200 Ω           | diode          |                  |       |                  |
| D31C5100                 |                   | 100VDC       | 0,25A                       |                        | 3VA                  | 12VDC                       | 500 Ω           | ---            |                  |       |                  |
| D31C5110                 |                   | 100VDC       | 0,25A                       |                        | 3VA                  | 12VDC                       | 500 Ω           | diode          |                  |       |                  |
| D31C7100                 |                   | 100VDC       | 0,25A                       |                        | 3VA                  | 24VDC                       | 2150 Ω          | ---            |                  |       |                  |
| D31C7110                 |                   | 100VDC       | 0,25A                       |                        | 3VA                  | 24VDC                       | 2150 Ω          | diode          |                  |       |                  |
|                          |                   | D32A3100     | 2NO                         |                        | 100VDC               | 0,5A                        | 10VA            | 5VDC           | 200 Ω            | ---   | 19,1 x 6,6 x 6,4 |
|                          | D32A3110          | 100VDC       |                             | 0,5A                   | 10VA                 | 5VDC                        | 200 Ω           | diode          |                  |       |                  |
|                          | D32A5100          | 100VDC       |                             | 0,5A                   | 10VA                 | 12VDC                       | 500 Ω           | ---            |                  |       |                  |
|                          | D71A2100          | 1NO          | 100VDC                      | 0,5A                   | 10VA                 | 5VDC                        | 380 Ω           | ---            | 19,1 x 6,6 x 5,5 |       |                  |
|                          | D71A2110          |              | 100VDC                      | 0,5A                   | 10VA                 | 5VDC                        | 380 Ω           | diode          |                  |       |                  |
|                          | D71A5100          |              | 100VDC                      | 0,5A                   | 10VA                 | 12VDC                       | 530 Ω           | ---            |                  |       |                  |

## Reed Relays in SIP enclosure

Relays for high density component circuits : alarms, testers, industrial control.



| Internal scheme top view | PRODUCT REFERENCE | Contact type | Characteristics of the bulb |                        |                      | Characteristics of the coil |                 | Specifications | Dimensions mm       |
|--------------------------|-------------------|--------------|-----------------------------|------------------------|----------------------|-----------------------------|-----------------|----------------|---------------------|
|                          |                   |              | Max. switching voltage      | Max. switching current | Max. switching power | Voltage rating              | R. coil at 20°C |                |                     |
|                          | D41A3100L         | 1NO          | 100VDC                      | 0,5A                   | 10VA                 | 5VDC                        | 500 Ω           | ---            | 19 x (5 au 6) x 7,5 |
|                          | D41A3110L         |              | 100VDC                      | 0,5A                   | 10VA                 | 5VDC                        | 500 Ω           | diode          |                     |

## High voltage relay

Dielectric strenght between contacts > 10KVDC and 14VDC between coil and contact.



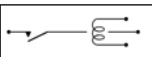
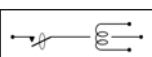
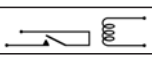
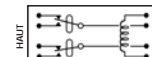
| PRODUCT REFERENCE | Contact type | Max. switching voltage | Max. switching current | Max. switching power | Voltage rating | R. coil at 20°C | Specifications     | Dimensions mm    |
|-------------------|--------------|------------------------|------------------------|----------------------|----------------|-----------------|--------------------|------------------|
| R1380L00          | 1NO          | 7500VDC                | 0,2A                   | 50VA                 | 6VDC           | 75 Ω            | high voltage relay | 65 x 15,2 x 16,9 |
| R1329L00          |              | 7500VDC                | 0,2A                   | 50VA                 | 12VDC          | 300 Ω           |                    |                  |
| R1343L00          |              | 7500VDC                | 0,2A                   | 50VA                 | 24VDC          | 1200 Ω          |                    |                  |
| R1402L13          | 1NC          | 5000VDC                | 0,2A                   | 50VA                 | 12VDC          | 300 Ω           |                    |                  |
| R1446L13          |              | 5000VDC                | 0,2A                   | 50VA                 | 24VDC          | 1200 Ω          |                    |                  |

These relays can be mounted on PCB or screwed on a base plate.





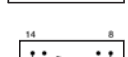
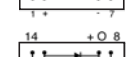
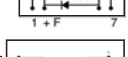
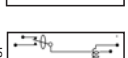
## Reed D and R Relay Range

Relays with ferro-magnetoc shieldinf for telecom type applications



| Internal scheme top view  | PRODUCT REFERENCE | Contact type                        | Characteristics of the bulb |                        |                      | Characteristics of the coil |                 | Specifications                        | Dimensions mm  |
|---|-------------------|-------------------------------------|-----------------------------|------------------------|----------------------|-----------------------------|-----------------|---------------------------------------|----------------|
|   |                   |                                     | Max. switching voltage      | Max. switching current | Max. switching power | Voltage rating              | R. coil at 20°C |                                       |                |
|    | F51A2100          | 1NO                                 | 250VDC                      | 0,4A                   | 14VA                 | 5VDC                        | 345 Ω           | comes in coated version ref. F81Ax100 | 30 x 9,5 x 10  |
|   | F51A5100          |                                     | 250VDC                      | 0,4A                   | 14VA                 | 12VDC                       | 2145 Ω          |                                       |                |
|   | F51A7100          |                                     | 250VDC                      | 0,4A                   | 14VA                 | 24VDC                       | 7845 Ω          |                                       |                |
|   | F81A2500          | 1NO mercury                         | 500VDC                      | 1A                     | 50VA                 | 5VDC                        | 140 Ω           | Position vertically                   | 30 x 9,5 x 10  |
|   | F81A5500          |                                     | 500VDC                      | 1A                     | 50VA                 | 12VDC                       | 1000 kΩ         |                                       |                |
|   | F81A7500          |                                     | 500VDC                      | 1A                     | 50VA                 | 24VDC                       | 2300 Ω          |                                       |                |
|  | F61A2100          | 1NO                                 | 250VDC                      | 0,4A                   | 14VA                 | 5VDC                        | 345 Ω           | Coil/contact insulation 4KV           | 30 x 9,5 x 11  |
|   | F61A5100          |                                     | 250VDC                      | 0,4A                   | 14VA                 | 12VDC                       | 2145 Ω          |                                       |                |
|   | F61A7100          |                                     | 250VDC                      | 0,4A                   | 14VA                 | 24VDC                       | 7845 Ω          |                                       |                |
|  | F72C2500          | 2 mercury wetted Change-over switch | 500VDC                      | 1A                     | 50VA                 | 5VDC                        | 75 Ω            | Position vertically                   | 30 x 16,5 x 11 |
|   | F72C5500          |                                     | 500VDC                      | 1A                     | 50VA                 | 12VDC                       | 350 Ω           |                                       |                |
|   | F72C7500          |                                     | 500VDC                      | 1A                     | 50VA                 | 24VDC                       | 1350 Ω          |                                       |                |



| Internal scheme top view  | PRODUCT REFERENCE | Contact type                        | Characteristics of the bulb |                        |                      | Characteristics of the coil |                 | Specifications                     | Dimensions mm      |
|---|-------------------|-------------------------------------|-----------------------------|------------------------|----------------------|-----------------------------|-----------------|------------------------------------|--------------------|
|   |                   |                                     | Max. switching voltage      | Max. switching current | Max. switching power | Voltage rating              | R. coil at 20°C |                                    |                    |
|  | R0292B00          | 1NO                                 | 100VDC                      | 0,4A                   | 12VA                 | 4VDC                        | 250 Ω           | ---                                | 23 x 7,5 x 6,7     |
|   | R0293B08          |                                     | 100VDC                      | 0,4A                   | 12VA                 | 5VDC                        | 450 Ω           |                                    |                    |
|   | R0294B08          |                                     | 100VDC                      | 0,4A                   | 12VA                 | 12VDC                       | 1600 Ω          |                                    |                    |
|   | R0295B08          |                                     | 100VDC                      | 0,4A                   | 12VA                 | 24VDC                       | 2800 Ω          |                                    |                    |
|  | R0550B08          | 1NO                                 | 100VDC                      | 0,4A                   | 12VA                 | 4VDC                        | 500 Ω           | DIL layout                         | 20,2 x 10,1 x 7,2  |
|   | R0551B08          |                                     | 100VDC                      | 0,4A                   | 12VA                 | 5VDC                        | 500 Ω           |                                    |                    |
|   | R0552B08          |                                     | 100VDC                      | 0,4A                   | 12VA                 | 12VDC                       | 1000 kΩ         |                                    |                    |
|   | R0553B08          |                                     | 100VDC                      | 0,4A                   | 12VA                 | 24VDC                       | 2150 Ω          |                                    |                    |
|  | R0250W00          | change-over                         | 100VDC                      | 0,25A                  | 3VA                  | 4VDC                        | 75 Ω            | ---                                | 23 x 7,5 x 6,7     |
|   | R0251W00          |                                     | 100VDC                      | 0,25A                  | 3VA                  | 6VDC                        | 150 Ω           |                                    |                    |
|   | R0252W00          |                                     | 100VDC                      | 0,25A                  | 3VA                  | 12VDC                       | 500 Ω           |                                    |                    |
|   | R0253W00          |                                     | 100VDC                      | 0,25A                  | 3VA                  | 24VDC                       | 1800 Ω          |                                    |                    |
|  | R0115S06          | 1NO                                 | 250Veff                     | 3A                     | 100VA                | 6VDC                        | 250 Ω           | step 5,08                          | 65 x 15,5 x 16     |
|   | R0116S06          |                                     | 250Veff                     | 3A                     | 100VA                | 12VDC                       | 1000 kΩ         |                                    |                    |
|   | R0117S06          |                                     | 250Veff                     | 3A                     | 100VA                | 24VDC                       | 4 kΩ            |                                    |                    |
|  | R0542B08          | 1NC                                 | 100VDC                      | 0,4A                   | 12VA                 | 4VDC                        | 200 Ω           | DIL layout                         | 20,2 x 10,1 x 7,2  |
|   | R0543B08          |                                     | 100VDC                      | 0,4A                   | 12VA                 | 5VDC                        | 200 Ω           |                                    |                    |
|   | R0544B00          |                                     | 100VDC                      | 0,4A                   | 12VA                 | 12VDC                       | 500 Ω           |                                    |                    |
|   | R0546B00          |                                     | 100VDC                      | 0,4A                   | 12VA                 | 24VDC                       | 2150 Ω          |                                    |                    |
|  | R0585B01          | 1NO bistable 2 coils                | 100VDC                      | 0,2A                   | 5VA                  | 5VDC                        | 2x500 Ω         | diode                              | 20,2 x 10,1 x 10   |
|   | R0582B01          |                                     | 100VDC                      | 0,2A                   | 5VA                  | 12VDC                       | 2x1500 Ω        |                                    |                    |
|  | R0861P12          | mercury wetted Change-over switch   | 500VDC                      | 2A                     | 100VA                | 5VDC                        | 335 Ω           | position vertically                | 40,8 x 14,2 x 10,4 |
|   | R0760P00          |                                     | 500VDC                      | 2A                     | 100VA                | 12VDC                       | 680 Ω           |                                    |                    |
|   | R0761P00          |                                     | 500VDC                      | 2A                     | 100VA                | 24VDC                       | 2650 Ω          |                                    |                    |
|  | R0866P00          | 2 mercury wetted Change-over switch | 500VDC                      | 2A                     | 100VA                | 5VDC                        | 125 Ω           | position vertically possible C.O.T | 40,8 x 19,8 x 10,4 |
|   | R0720P00          |                                     | 500VDC                      | 2A                     | 100VA                | 12VDC                       | 355 Ω           |                                    |                    |
|   | R0721P00          |                                     | 500VDC                      | 2A                     | 100VA                | 24VDC                       | 800 Ω           |                                    |                    |